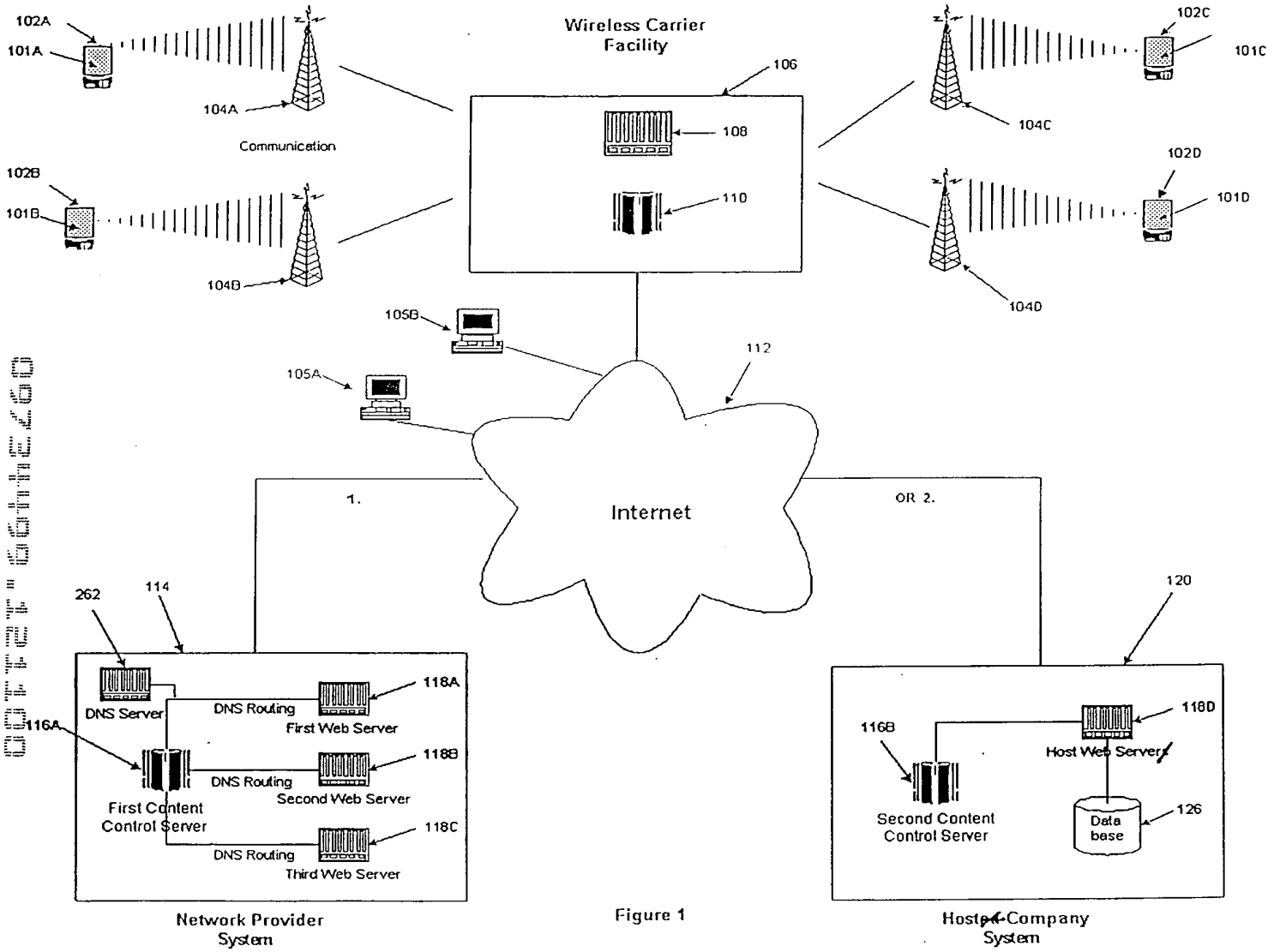
102A
101A
104A
Communication
Wireless Carrier Facility
106
108
110
102C
101C
104C
102B
101B
104B
102D
101D
104D
105B
105A
112
Internet
1.
OR 2.
262
114
DNS Server
DNS Routing
First Web Server
118A
116A
First Content Control Server
DNS Routing
Second Web Server
118B
DNS Routing
Third Web Server
118C
Network Provider System
120
116B
Second Content Control Server
Host Web Server
118D
Data base
126
Host Company System

Figure 1

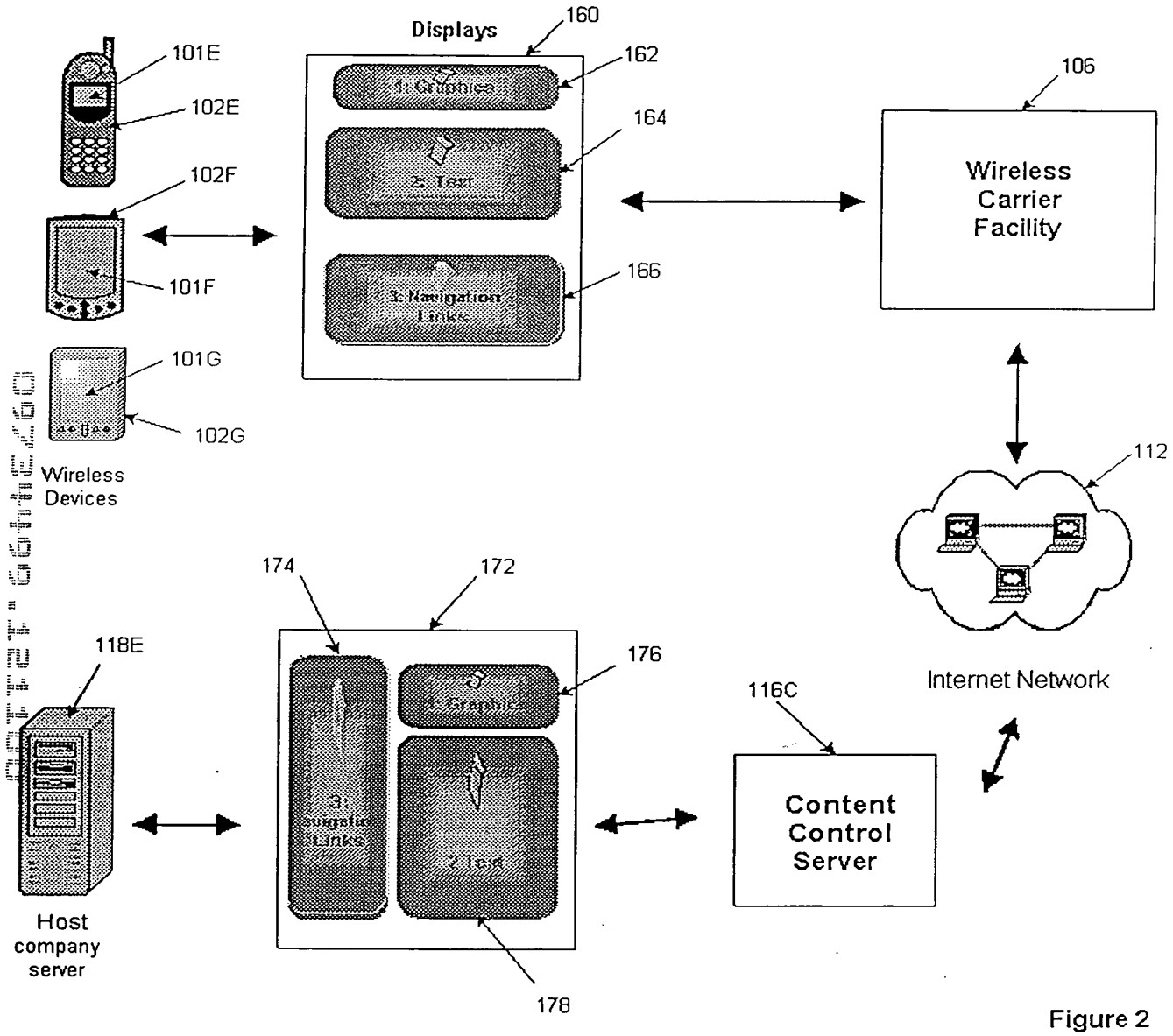
Displays
160
101E
102E
162
164
106
102F
101F
166
Wireless Carrier Facility
101G
102G
Wireless Devices
112
Internet Network
174
172
118E
176
116C
Content Control Server
Host company server
178

Figure 2

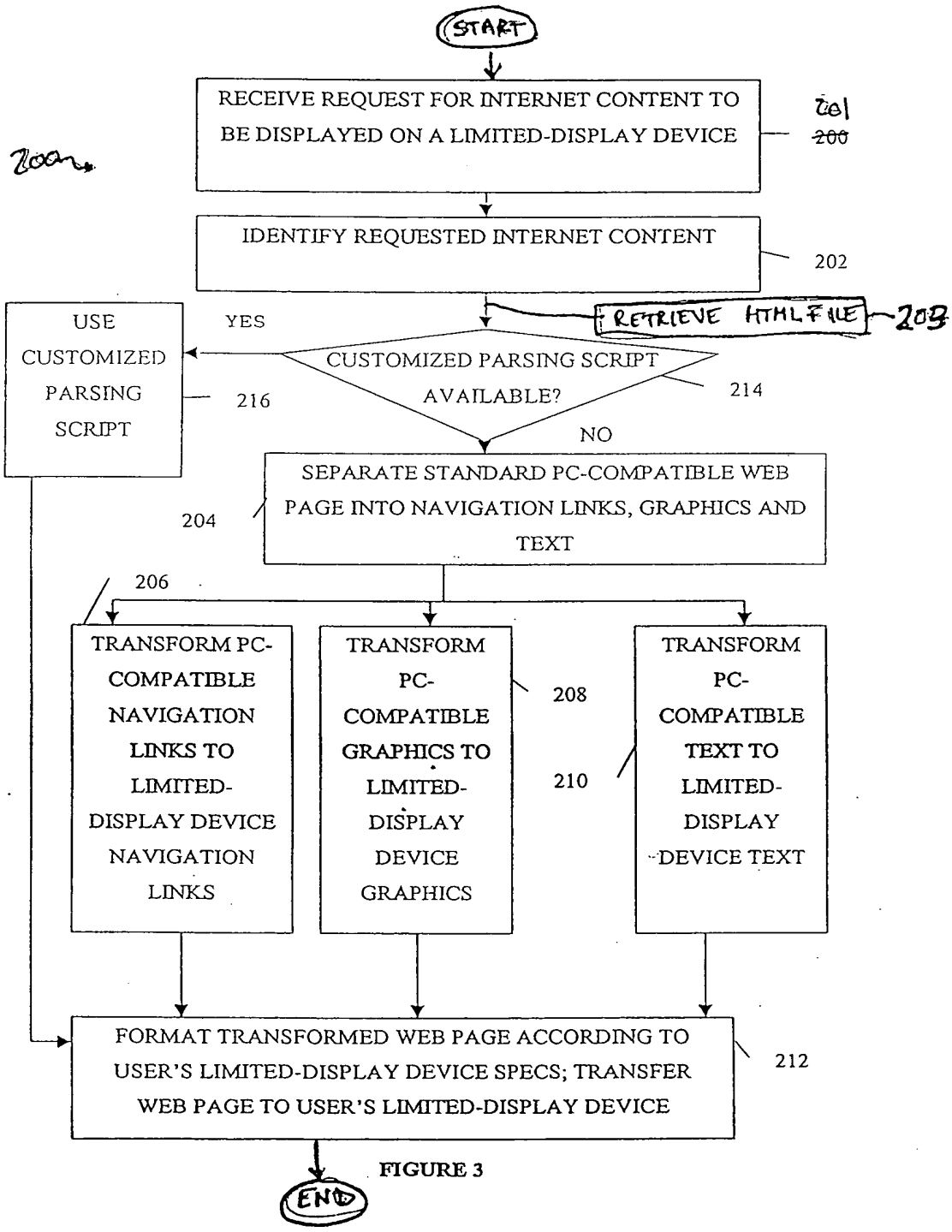
START
RECEIVE REQUEST FOR INTERNET CONTENT TO BE DISPLAYED ON A LIMITED-DISPLAY DEVICE
200
IDENTIFY REQUESTED INTERNET CONTENT
202
RETRIEVE HTML FILE
203
CUSTOMIZED PARSING SCRIPT AVAILABLE?
214
YES
USE CUSTOMIZED PARSING SCRIPT
216
NO
SEPARATE STANDARD PC-COMPATIBLE WEB PAGE INTO NAVIGATION LINKS, GRAPHICS AND TEXT
204
206
TRANSFORM PC-COMPATIBLE NAVIGATION LINKS TO LIMITED-DISPLAY DEVICE NAVIGATION LINKS
TRANSFORM PC-COMPATIBLE GRAPHICS TO LIMITED-DISPLAY DEVICE GRAPHICS
208
TRANSFORM PC-COMPATIBLE TEXT TO LIMITED-DISPLAY DEVICE TEXT
210
FORMAT TRANSFORMED WEB PAGE ACCORDING TO USER'S LIMITED-DISPLAY DEVICE SPECS; TRANSFER WEB PAGE TO USER'S LIMITED-DISPLAY DEVICE
212
END

FIGURE 3

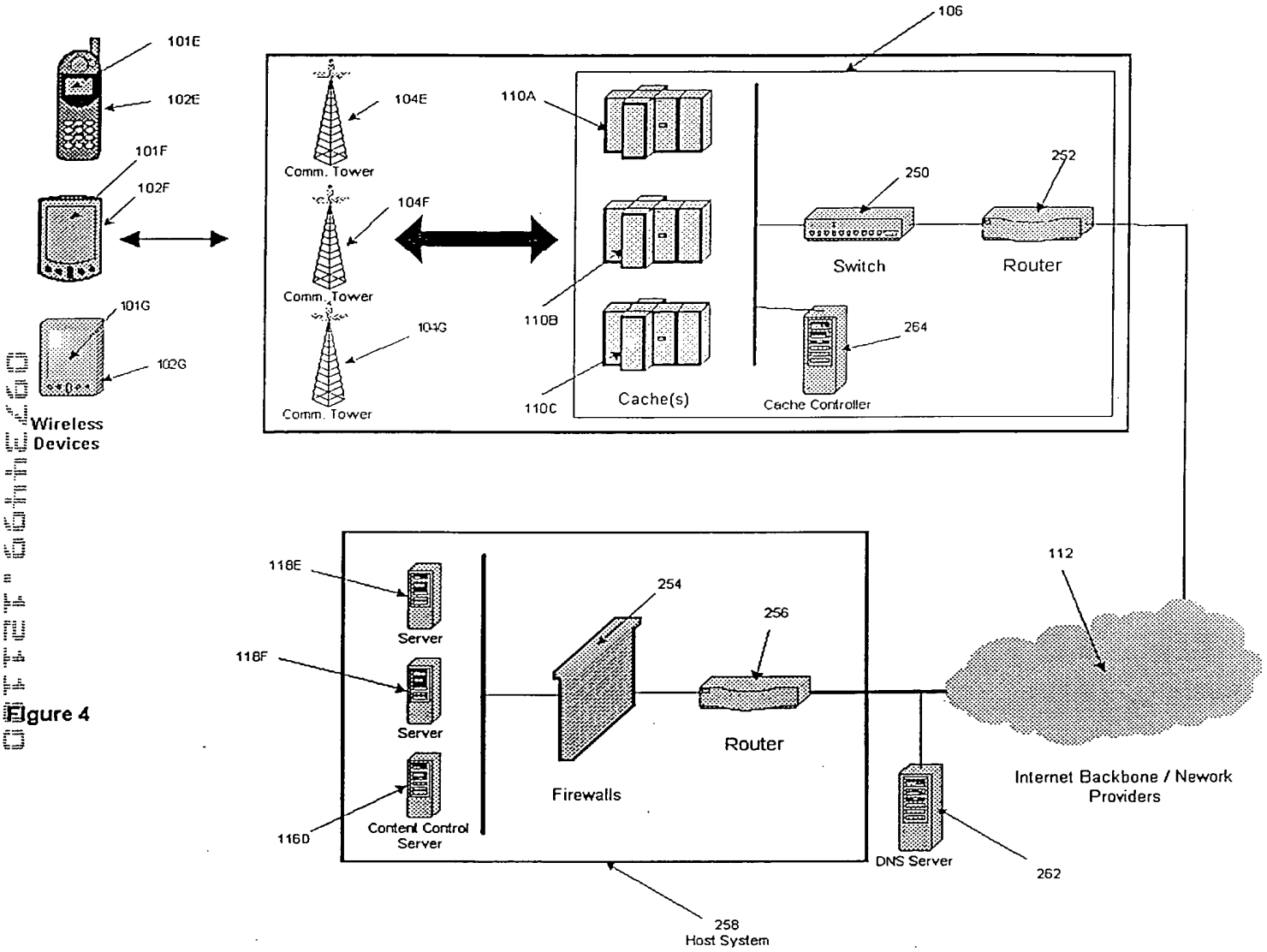
101E
102E
101F
102F
101G
102G
Wireless Devices
106
104E
Comm. Tower
104F
Comm. Tower
104G
Comm. Tower
110A
110B
110C
Cache(s)
250
Switch
252
Router
264
Cache Controller
118E
Server
118F
Server
116D
Content Control Server
254
Firewalls
256
Router
112
Internet Backbone / Nework Providers
DNS Server
262
258
Host System

Figure 4

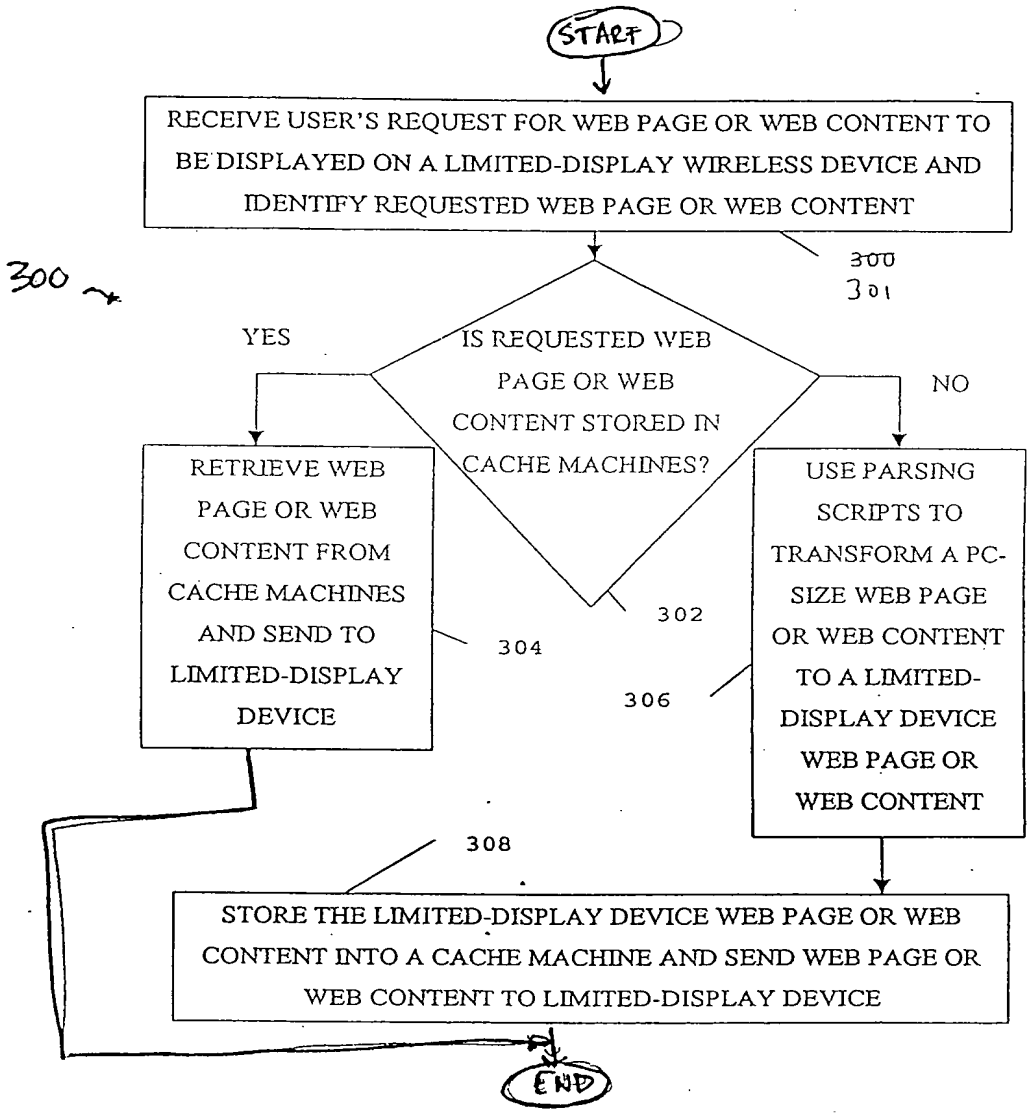
START
RECEIVE USER'S REQUEST FOR WEB PAGE OR WEB CONTENT TO BE DISPLAYED ON A LIMITED-DISPLAY WIRELESS DEVICE AND IDENTIFY REQUESTED WEB PAGE OR WEB CONTENT
300
301
300
IS REQUESTED WEB PAGE OR WEB CONTENT STORED IN CACHE MACHINES?
YES
NO
302
RETRIEVE WEB PAGE OR WEB CONTENT FROM CACHE MACHINES AND SEND TO LIMITED-DISPLAY DEVICE
304
USE PARSING SCRIPTS TO TRANSFORM A PC-SIZE WEB PAGE OR WEB CONTENT TO A LIMITED-DISPLAY DEVICE WEB PAGE OR WEB CONTENT
306
308
STORE THE LIMITED-DISPLAY DEVICE WEB PAGE OR WEB CONTENT INTO A CACHE MACHINE AND SEND WEB PAGE OR WEB CONTENT TO LIMITED-DISPLAY DEVICE
END

FIGURE 5

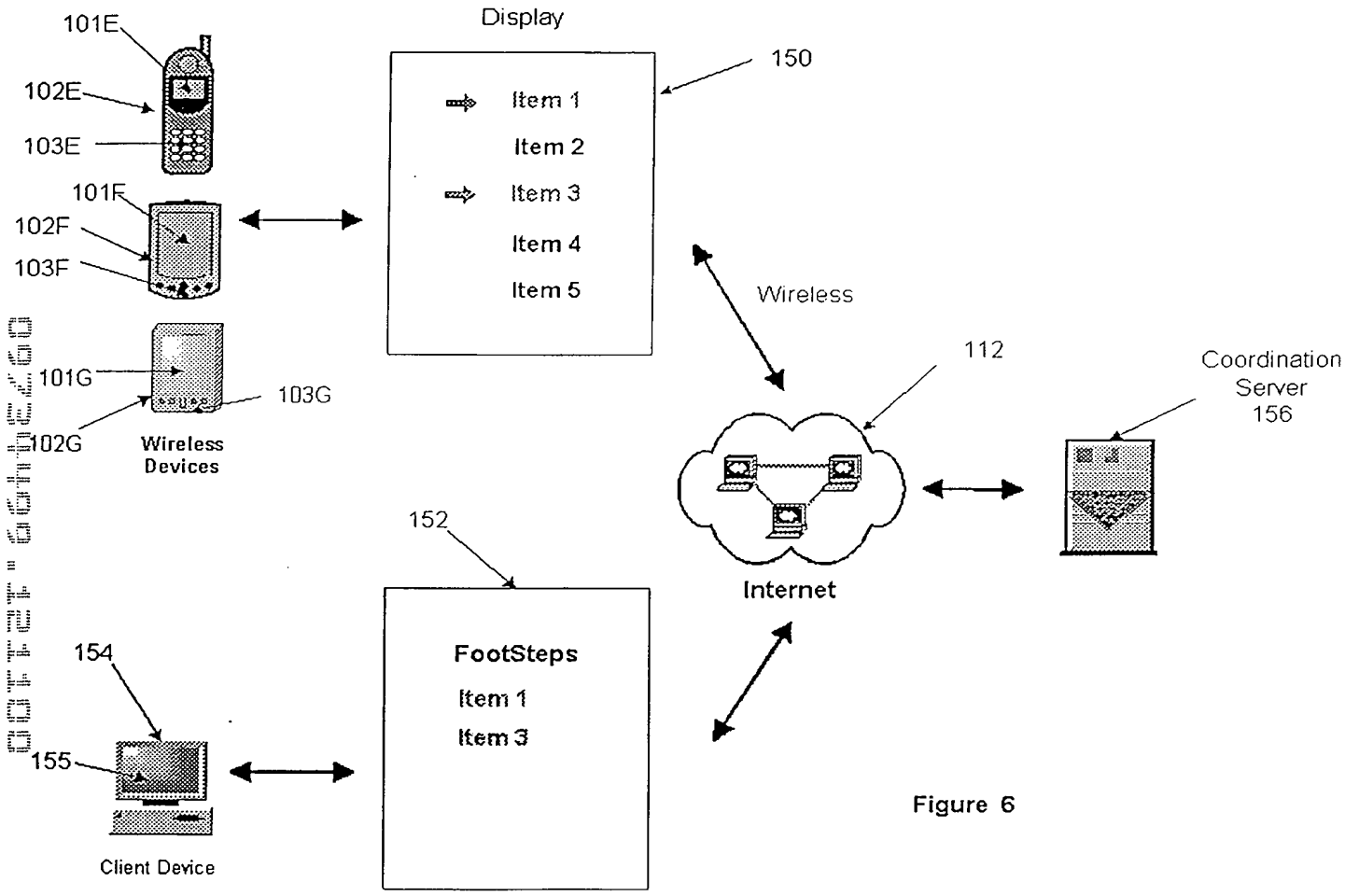
101E
102E
103E
101F
102F
103F
101G
102G
103G
Wireless Devices
Display
150
Item 1
Item 2
Item 3
Item 4
Item 5
Wireless
112
Coordination Server 156
Internet
152
FootSteps
Item 1
Item 3
154
155
Client Device

Figure 6

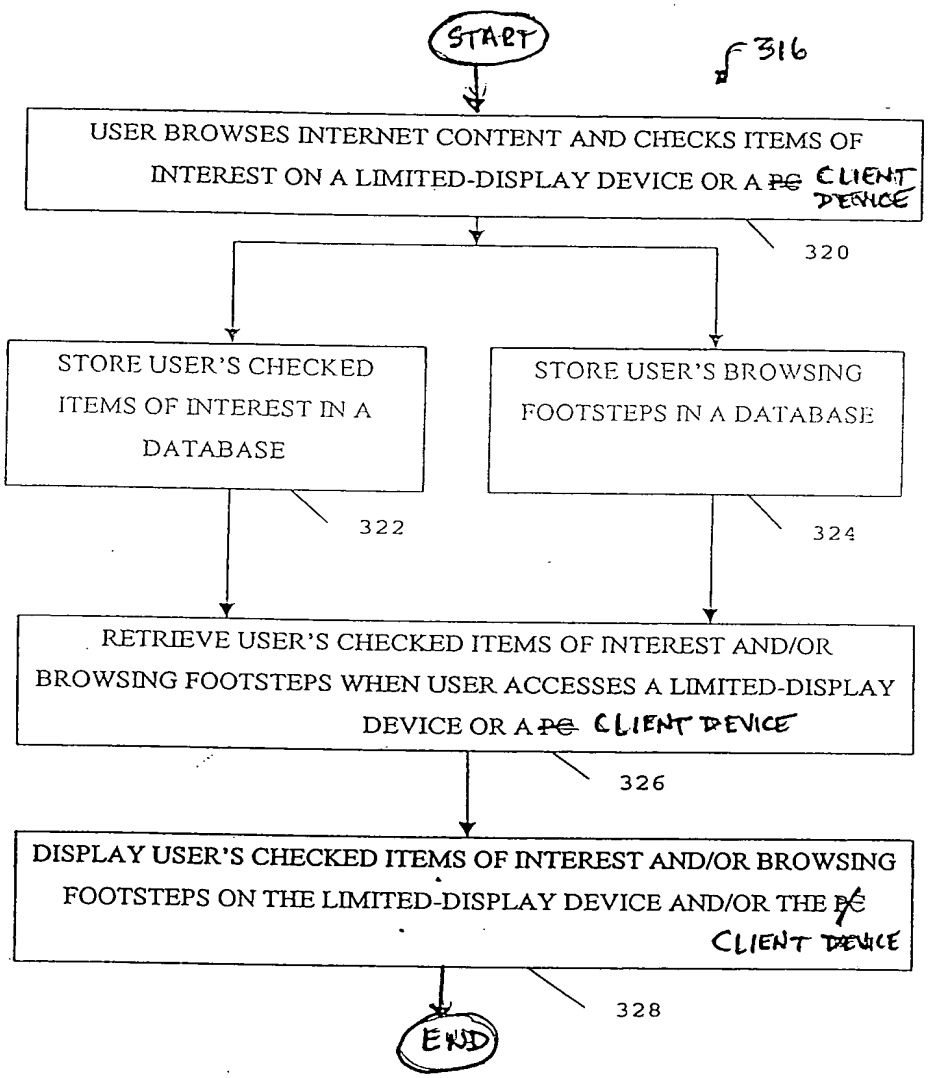
START
316
USER BROWSES INTERNET CONTENT AND CHECKS ITEMS OF INTEREST ON A LIMITED-DISPLAY DEVICE OR A ~~PC~~ CLIENT DEVICE
320
STORE USER'S CHECKED ITEMS OF INTEREST IN A DATABASE
322
STORE USER'S BROWSING FOOTSTEPS IN A DATABASE
324
RETRIEVE USER'S CHECKED ITEMS OF INTEREST AND/OR BROWSING FOOTSTEPS WHEN USER ACCESSES A LIMITED-DISPLAY DEVICE OR A ~~PC~~ CLIENT DEVICE
326
DISPLAY USER'S CHECKED ITEMS OF INTEREST AND/OR BROWSING FOOTSTEPS ON THE LIMITED-DISPLAY DEVICE AND/OR THE ~~PC~~ CLIENT DEVICE
328
END

FIGURE 7

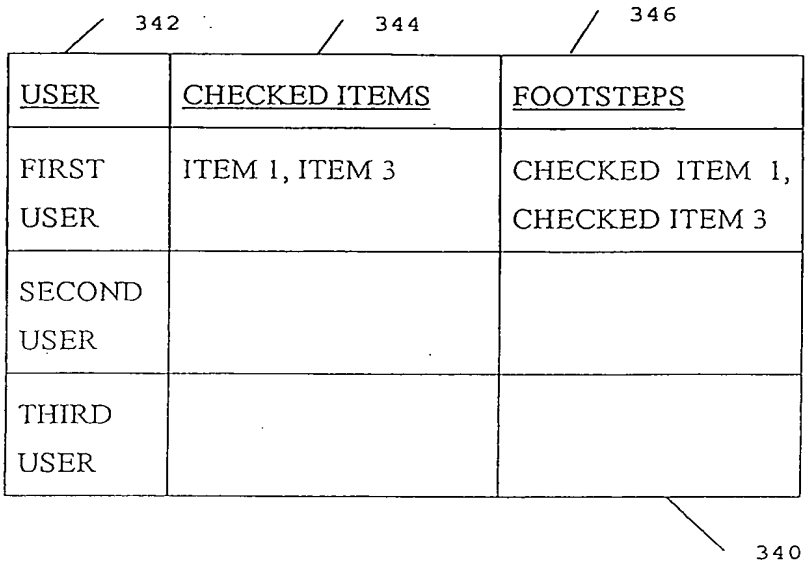
342
344
346
USER
CHECKED ITEMS
FOOTSTEPS
FIRST USER
ITEM 1, ITEM 3
CHECKED ITEM 1, CHECKED ITEM 3
SECOND USER
THIRD USER
340

FIGURE 8